**20.** (New). A method of boosting topical UV protection of sunscreen agents according to claim 16, wherein said method includes titanium zeolite.

A numbered list of all claims-related actions is submitted separately in an amendment under "Claims" in the proper font size and style.

# Notes to the Applicant

The numbering has been redone according to the Examiner comment. A renumbered list of all claims is submitted separately in an amendment under "Claims" in the proper font size and style.

# Claims Objections

Text font and size and style have been corrected in the amended claims. A complete list of all claims is submitted separately in an amendment under "Claims" in the proper font size and style.

#### Double Patenting

There is no intention or evidence of double patenting.

Patent Application 10/605,191 is now abandoned.

Patent Application 11/760,466 (filed 06/08/2007), which is a continuation-in-part of (now abandoned) patent Application 10/605,191, discloses diaper dermatitis treatment with certain divalent metal zeolites including zinc zeolite. Diaper dermatitis is a human disease, whereas the subject matter of the present invention principally relates to absorption of UV radiation and free radicals, which are all from non-human, extraneous origin. Diaper dermatitis is of biological origin, whereas UV and free radicals are of photochemical and chemical origin, respectively.

# Claim Rejections – 35 USC §112 second paragraph

Claim 10 has now been Currently Amended to comply with the Examiner objection. A complete list of all claims is submitted separately in an amendment under "Claims".

### Claim Rejections - 35 USC §102

Strianse et al. (US 4,362,715) invention discloses the following (the Applicant highlights items of interest by underline):

"A combination of an acidic functional polymer and zeolite and/or amorphous alumino silicate provides a gel suitable as a cosmetic vehicle plus supplying functionality as well. The components combine easily to provide a creamy gel that is compounded with other ingredients to provide the complete cosmetic composition. The zeolite or amorphous alumino silicate is present in a sufficient quantity to provide functionality as well as the desired rheology. The combination can be used to compound astringent creams or lotions, make-up bases, facial masks, deodorant compositions, antiperspirants, anti-acne compositions, wrinkle smoothers or erasers, pore minimizers, and body lotions. An especially useful zeolite or amorphous alumino silicate is a material that contains aluminum as the cation".

The underlined items above clearly establish the utility of zeolite as a viscosity builder. There is no mention of said zeolite, which is not a zinc zeolite or titanium zeolite, as a UV absorbing or free radical neutralizing agent. Additionally, the above compositions must also include an acidic polymer. Also, these compositions must also contain aluminum as the cation, whereas the present invention includes only zinc or titanium as the cations of choice.

Additionally, the present invention <u>does not</u> require a cosmetic vehicle, which Striansee invention <u>does require</u>.

Strianse et al. invention is not even remotely related to surprising and unexpected nature of the present invention.

With respect to Araya (US Patent Application 2003/0148876), which discloses the following:

"A method of using a zeolite composition comprises forming a mixture of (a) a crystalline aluminosilicate and (b) a salt of a second metal selected from the group consisting of Group III metals, metallic elements of Group IV, magnesium, titanium, chromium, iron, nickel, copper, zinc, zirconium and silver, said salt of a second metal being present in an amount which is sufficient to replace from about 2.0 to about 40 per cent of a first metal moiety, and using said mixture in an aqueous composition at a pH in the range 4 to 10. A further aspect of the invention is a powder comprising a mixture of (a) a crystalline aluminosilicate and (b) a salt of a second metal selected from the group consisting of Group III

metals, metallic elements of Group IV, magnesium, titanium, chromium, iron, nickel, copper, zinc, zirconium and silver, said salt of a second metal being present in an amount which is sufficient to replace from about 2.0 to about 40 per cent of a first metal moiety. Methods according to the invention include paper making, paint preparation, dental applications, use of detergents and adsorption and catalytic applications.

The items underlined above clearly establish that Araya invention is a method that is useful for certain surface modification applications. However, Araya method does not disclose any UV absorbing or free radical neutralizing zinc zeolite or titanium zeolite. Moreover, Araya invention must also contain water, and is limited by a pH range of 4 to 10. Araya invention also must include a <u>crystalline</u> aluminosilicate.

Araya invention is thus not even remotely related to surprising and unexpected nature of the present invention.

# Notes to the Applicant

Both Strianse et al. and Araya inventions require a cosmetic base or aqueous compositions.

Strianse et al., for example in claims 1 and 2, require the following:

"1. A cosmetic vehicle comprising a carboxyvinyl polymer with active carboxyl groups and a zeolite having the formula:

wherein x and y are integers greater than 6, the molar ratio of x to y is 0.1 to 1.1, z varies from 8 to 250 and M is a metal of valence n, <u>said polymer-zeolite</u> composition being a creamy gel with a pseudoplastic viscosity and having a pH of 5.5 to 8.5.

2. The cosmetic vehicle of claim 1 consisting of 0.1 to 10% by weight of the acidic polymer, 5 to 25% by weight of the zeolite and the balance to 100% by weight of water.

Strianse et al. invention requires both a cosmetic vehicle, which contains a substantial quantity of an acidic polymer, and a substantial quantity of water. The present invention <u>does not require</u> any of these ingredients or vehicles. A pH range of 5.5 to 8.5 also limits Strianse et al. invention.

Now, relative to Araya; claim 1, for example, states the following:

"1. A method of using a zeolite composition comprising forming a mixture of (a) a crystalline aluminosilicate represented by the empirical

formulaM.sub.2/nO.Al.sub.2O.sub.3.xSiO.sub.2.yH.sub.2O wherein M represents a first metal moiety, said first metal having a valency of n, x indicates the ratio of atoms of silicon to atoms of aluminium and y indicates the ratio of molecules of water to atoms of aluminium and (b) a salt of a second metal selected from the group consisting of Group III metals, metallic elements of Group IV, magnesium, titanium, chromium, iron, nickel, copper, zinc, zirconium and silver, said salt of a second metal being present in an amount which is sufficient to replace from about 2.0 to about 40 per cent of the first metal moiety, and using said mixture in an aqueous composition at a pH in the range 4 to 10."

Araya requires (i) a <u>crystalline</u> aluminosilicate, and (ii) an aqueous composition, and (iii) a pH range of 4 to 10. The present invention <u>does not require</u> any of those said limitations.

It is so surprising that the United States Patents Office granted both Strianse et al. and Araya inventions, albeit both of them are nearly identical in their scope of invention, and structurally indifferent.

Additionally, claim 3 has now been Currently Amended.

All of the above arguments clearly establish that the present invention is structurally different from all prior art references cited by the Examiner.

#### Conclusion

The Applicant hopes the Examiner finds the above actions and explanations satisfactory and grants this patent application.

Shyam Gupta Applicant

November 5, 2007

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Attachment. A clean copy of Claims is provided separately.